

ABSTRACT

The invention relates to a new method for developing a series of shoe shapes starting from a base shoe shape provided in a basic footwear size. The method comprises the following steps:

- 5 - measuring the spatial coordinates (x_B , y_B , z_B) of points on the base shoe shape (2) of basic footwear size using gauges (15) associated with a first computer means (10) on which CAD programs are run;
- 10 - obtaining, from the spatial coordinates (x_B , y_B , z_B) of points on the base shoe shape (2) of basic footwear size, spatial coordinates (x_n , y_n , z_n) of points on at least another shoe shape in the series, by using predetermined calculation formulae entered to said computer means;
- feeding an NC tool machine with said spatial coordinates (x_n , y_n , z_n) of points on at least another shoe shape in the series for the manufacturing thereof;
- 15 - using the information contained in the memory, physically installed in each shoe shape or accessible by means of its code, to design the footwear component parts and properly assembling them at the production stage.

(Fig. 1)

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(54) Title: METHOD FOR GRADING A SERIES OF SHOE LASTS DISTRIBUTED ON A SERIES OF SIZES STARTING
FROM A BASE LAST AND SHOE LAST SO OBTAINED



(57) **Abstract:** The invention relates to a new method for developing a series of shoe lasts starting from a base shoe last provided in a basic footwear size. The method comprises the following steps: - measuring the spatial coordinates (X_B , Y_B , Z_B) of points on the base shoe last (2) of basic footwear size using gauges (15) associated with a first computer means (10) on which CAD programs are run; - obtaining, from the spatial coordinates (X_B , Y_B , Z_B) of points on the base shoe last (2) of basic footwear size, spatial coordinates (X_n , Y_n , Z_n) of points on at least another shoe last in the series, by using predetermined calculation formulae entered to said computer means, the so-called grading step; - feeding an NC tool machine with said spatial coordinates (X_n , Y_n , Z_n) of points on at least another shoe last in the series for the manufacturing thereof; - using the information contained in the memory, physically installed in each shoe last or accessible by means of its code, to design the footwear component parts and properly assembling them at the production stage.



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